PCT

REQUEST

For receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) MSH-268PCT TITLE OF INVENTION Box No. I HYPERBRANCHED (PAMAM) POLYMERS VIA A ONE POT PROCESS Box No. II APPLICANT This person is also inventor Name and address: (Family name followed by given name: for a legal entity, full official designation. Telephone No. The address must metade postal code and name of country. The country of the address indicated in this 989-631-4551 Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Facsimile No. DENDRITIC NANOTECHNOLOGIES, INC. 989-631-4584 2625 Denison Suite B Teleprinter No. Mt. Pleasant, Michigan 48858 United States of America Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: United States of America United States of America the United States This person is applicant all designated all designated States except the States indicated in the United States of America of America only the Supplemental Box for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is: The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, commy) of residence if no State of residence is indicated below.) applicant only TOMALIA, DONALD A. applicant and inventor 463 West Chippewa River Road inventor only (If this check-box is Midland, Michigan 48640 marked, do not fill in below.) United States of America Applicant's registration No. with the Office State that is, country) of nationality: State (that is, country) of residence: United States of America United States of America This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE: OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby has been appointed to act on behalf common agent representative of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation.
The address must include postal code and name of country.) Telephone No. 989-631-4551 McKELLAR, ROBERT L. Facsimile No. McKellar Stevens, PLLC 989-631-4584 784 South Poseyville Road Teleprinter No. Midland, Michigan 48640 United States of America Agent's registration No. with the Office 26,002

Address for correspondence: Mark this check-box where no agent or common representative is has been appointed and the snace above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. HI FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not	be included in the req	niest.	
Name and address: (Family name followed by given name; for a legal entire. The address must meliade postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. SWANSON, DOUGLAS R. 2915 Billbrael Mt. Pleasant, Michigan 48858 United States of America	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, commy) of nationality: United States of America	State (that is, country) United States	of America	
This person is applicant all designated all designated for the purposes of:	States except ates of America	the United States in the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity. The address must melude postal code and name of country. The country of the Box is the applicant is State (that is, country) of residence if no State of residence.	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country)) of residence:	
This person is applicant all designated all designated for the purposes of:	States except tes of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name); for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residenc	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No, with the Office	
State (that is, country) of nationality:]) of residence:		
	States except tates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal county, full official designation. The ackiress must include postal code and name of country. The country of the ackiress indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-hox is marked, do not fill in below.) Applicant's registration No, with the Office			
State (that is, country) of nationality:	State (that is, country)	I of residence:	
This person is applicant all designated all designated for the purposes of:	States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on another continuation sheet.			

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Sheet No.	•

Box No	5. T DESIGNAT				
The fil	ing of this request con late, for the grant of e	stitutes under Rule 4.9(a), the very kind of protection available.	ne designation of all Contrible and, where applicable.	acting States bound by the for the grant of both regi	e PCT on the international onal and national patents.
Howev	However.				
	DE Germany is not designated for any kind of national protection				
	KR Republic of Korea	is not designated for any kir	nd of national protection		
	RU Russian Federatio	n is not designated for any ki	ind of national protection		
the nat	tional law, of an earlie	be used to exclude (irrevocab r national application from w in these and certain other St	hich priority is claimed. S	ned in order to avoid the ceethe Notes to Box No. 1	ceasing of the effect, under as to the consequences of
Box N	o. VI PRIORITY	CLAIM			
The pr	iority of the following	earlier application(s) is hereb	oy claimed:		
	Filing date	Number	v	Where earlier application	is:
	arlier application key month year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
	(12.09.03)	60/502,800	us'		
item (.					
item (.	3)				
			<u> </u>	<u> </u>	
F	urther priority claims	are indicated in the Suppleme	ental Box.		
	rlier application was fi	ested to prepare and transmit t led with the Office which for t			
Па	ll items 🔲 it	em (1) item (2	(3 tem (3	other, s	ee Supplemental Box
* Whe Inclust	re the earlier applicativial Property or one M	ion is an ARIPO application, i fember of the World Trade O	ndicate at least one country rganization for which that o	v party to the Paris Conve carlier application was fi	ention for the Protection of led (Rule 4.10(b)(ii)):
D N	I. 1788 ENPERMENTATION	PECANIA E CUE A ENCOTERICO A EM	THE PARTIES TO		
		FIONAL SEARCHING AU			
intern	ational search, indicate	arching Authority (ISA) (if the Authority chosen; the two	two or more International 8 >-letter code may be usedr.	Searching Anthorities are	competent to carry out the
ISA	/ US		• • • • • • • • • • • • • • • • • • • •		
	est to use results of ea ational Searching Auth	urlier search; reference to t	hat search <i>tif an earlier s</i> e	earch has been carried of	ut by or requested from the
	day month year)	Numl	ber Cour	atry <i>(or regional Office)</i>	
	-				
Box N	o. VIII DECLARA	TIONS			
The fo	ollowing declarations boyes below and indic	are contained in Boxes Nos.	VIII (i) to (v) (mark the a mber of each type of declar	pplicable ration):	Number of declarations
	Box No. VIII (i)	Declaration as to the identi			: 1
	Box No. VIII (ii)	Declaration as to the appli date, to apply for and be g	' icant's entitlement, as at th	ne international filing	: 1
図	Box No. VIII (iii)		licant's entitlement, as at t	the international filing	: 1
Ø	Box No. VIII (iv)	Declaration of inventorshi United States of America	ip (only for the purposes o	of the designation of the	: 1
	Box No. VIII (v)	Declaration as to non-prej		eptions to lack of novelty	· · :

Sheet No. . . 3 . . .

Box No. V DESIGNATI				
The filing of this request cons filing date, for the grant of ev	stitutes under Rule 4.9(a), the ery kind of protection available.	e designation of all Controlle and, where applicable.	acting States bound by the for the grant of both region	PCT on the international onal and national patents.
However.				
	signated for any kind of natio			
KR Republic of Korea	is not designated for any kir	nd of national protection		
	n is <mark>not designated</mark> for any ki			
- the national law, of an earliet	be used to exclude (irrevocab r national application from w in these and certain other St	men priorin is ciaimea. S	ned in order to avoid the c ee the Notes to Box No. V	easing of the effect, under as to the consequences of
Box No. VI PRIORITY	CLAIM			
The priority of the following	earlier application(s) is hereb	oy claimed:		
Filing date	Number	1	Where earlier application	is:
of earlier application (day month year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) September 12, 2003 (12,09,03)	60/502,800			
item (2)				
item (3)				
	t to the Short of	and Dave	_	
	are indicated in the Supplem			
The receiving Office is require earlier application was fabove as:	ested to prepare and transmit iled with the Office which for	to the International Bureau the purposes of this interna-	a a certified copy of the ea ational application is the	rdier application(s) (only if receiving Office) identified
, —	tem (1) item (see Supplemental Box
* Where the earlier applicat Industrial Property or one A	tion is an ARIPO application, Iember of the World Trade C	indicate at least one count Organization for which that	ry party to the Paris Conv earlier application was f	ention for the Protection of iled (Rule 4.10(b)(ii)):
TO BY THE INCOME.	TIONAL SEARCHING AU	THODETS'		
			Constitut Lutherities are	connetent to carry out the
Choice of International So international search, indicate	earching Authority (ISA) (i) to the Authority chosen; the tw	ro-letter code may be used)	: :	competent to entry but the
ISA / US				
	earlier search; reference to	that search (if an earlier).	search has been carried o	nt by or requested from the
International Searching Authority): Date (day month year) Number Country (or regional Office)				
- 200 (100)			·	
Box No. VIII DECLARATIONS				
The following declaration check-boxes below and indi	s are contained in Boxes No: icate in the right column the m	s. VIII (i) to (v) (mark the number of each type of decla	applicable tration):	Number of declarations
Box No. VIII (i)				: 1
Box No. VIII (ii)	Declaration as to the app date, to apply for and be	plicant's entitlement, as at t granted a patent	the international filing	: 1
Box No. VIII (iii)		plicant's entitlement, as at ty of the earlier application		: 1
Box No. VIII (iv)	Declaration of inventors United States of Americ	ship (only for the purposes a)	of the designation of the	: 1
Roy No VIII (Y)	Declaration as to non-pr	reiudicial disclosures or ex	ceptions to lack of novel	ý. :

Sheet No. ...4.

Box No. VIII (i) DECLARATION: IDENTITY OF THE INVENTOR

The declaration must conform to the standardized wording provided for in Section 211; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (i). If this Box is not used, this sheet should not be included in the request.

Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)):

In relation to this international application,

TOMALIA, DONALD A. 463 West Chippewa River Road Midland. Michigan 48640 United States of America

and

SWANSON, DOUGLAS R. 2915 Billbrael Mt. Pleasant, Michigan 48858 United States of America

are the inventors of the subject matter for which protection is sought by way of this international application.

This declaration is made for the purposes of all designations.

Sheet No. ...5

Sheet No.

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this international application,

DENDRITIC NANOTECHNOLOGIES, INC. is entitled to apply for and be granted a patent by virtue of the following:

an assignment from

TOMALIA, DONALD A., 463 West Chippewa River Road, Midland, Michigan, US, dated 10 September 2004;

and

SWANSON, DOUGLAS R., 2915 Billbrael, Mt. Pleasant, Michigan, US, dated 10 September 2004

to DENDRITIC NANOTECHNOLOGIES, INC.

This declaration is made for the purposes of all designations.

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII. VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

In relation to this international application,

DENDRITIC NANOTECHNOLOGIES, INC. is entitled to claim priority of earlier application No. 60/502,800 by virtue of the following:

an assignment from

TOMALIA, DONALD A., 463 West Chippewa River Road, Midland, Michigan, US, dated 10 September 2004;

and

SWANSON, DOUGLAS R., 2915 Billbrael, Mt. Pleasant, Michigan, US, dated 10 September 2004

to DENDRITIC NANOTECHNOLOGIES, INC.

This declaration is made for the purposes of all designations.

Box No. VIII (iv) DECLARATION INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the follor standardized wording provided for in Section 214; see s to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

I hereby declare that I believe I am the original, first and sole (if only one inventis listed below) inventor of the subject matter which is claimed and for which a	patent is sought.
This declaration is directed to the international application of which it forms a	
This declaration is directed to international application No. PCT/to Rule 26ter).	(if furnishing declaration pursuant
I hereby declare that my residence, mailing address, and citizenship are as state	d next to my name.
I hereby state that I have reviewed and understand the contents of the above-ide of said application. I have identified in the request of said application, in complia and I have identified below, under the heading "Prior Applications," by application, day, month and year of filing, any application for a patent or invent States of America, including any PCT international application designating at lea having a filing date before that of the application on which foreign priority is c	nce with PCT Rule 4.10, any claim to foreign priority. Ition number, country or Member of the World Trade for's certificate filed in a country other than the United stone country other than the United States of America. laimed.
Prior Applications:	
I hereby acknowledge the duty to disclose information that is known by 37 C.F.R. § 1.56, including for continuation-in-part applications, material inform of the prior application and the PCT international filing date of the continuation	nation which became available between the filing date n-in-part application.
I hereby declare that all statements made herein of my own knowledge are true are believed to be true; and further that these statements were made with the k made are punishable by fine or imprisonment, or both, under Section 1001 of T talse statements may jeopardize the validity of the application or any patent is	nowledge that willful false statements and the like so itle 18 of the United States Code and that such willful
Name: Donald A. Tomalia	
Residence: Midland, Michigan, US (city and either US state. if applicable. or country)	
Mailing Address: .463 West Chippewa River Road	
added under Rule 26ter after the filing of the international declarat	ature which is not contained in the request, or of the ion that is corrected or added under Rule 26ter after the the international application)
Name: Douglas R. Swanson	
Residence: Mt. Pleasant, Michigan, US (city and either US state. if applicable, or country)	
Mailing Address: 2915 Billbrael Mt. Pleasant, Michigan 48858 United States of America	
Citizenship: US	
added under Rule 26ter after the filing of the international declarate	ature which is not contained in the request, or of the ion that is corrected or added under Rule 26ter after the f the international application)
This declaration is continued on the following sheet. "Continuation of Bo	x No. VIII (iv)".

OX NO. IX CHECK LIST; LANGUAGE	OF FILING	
his international application contains: i) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
request (including	1. The fee calculation sheet	
deciaration sheets)	2. original separate power of attorney	1
description (excluding sequence listing and/or	3. X original general power of attorney	· '
tables related thereto) : 6	4. copy of general power of attorney: reference number.	:
claims : 3		:
abstract : 1	5. statement explaining lack of signature	
drawings : 5	6. priority document(s) identified in Box No. VI as item(s):	:
Sub-total number of sheets : 23 sequence listing :	7. translation of international application into (language):	:
tables related thereto :	8. separate indications concerning deposited microorganism or other biological material	:
for both, actual number of sheets if filed in paper form,	a Commence listing in computer readable form	
whether or not also filed in computer readable form:	(indicate type and number of carriers) (i) copy submitted for the purposes of international search under the purposes of international search under the purposes of international search under the purposes of the purposes of the international search under the purpose of the purpose of the purpose of the international search under the purpose of the purpose	er
see (c) below) Total number of sheets : 23	Rule 13ter only (and not as part of the international approximation of the internation o	ion,
only in computer readable form	additional copies including, where applicable, the copy for purposes of international search under Rule 13ter	the :
(Section 801(a)(i)) (i) sequence listing	(iii) together with relevant statement as to the identity of the copcopies with the sequence listing mentioned in left column	y or :
(ii) tables related thereto	10 The tables in computer readable form related to sequence listing	•
c) also in computer readable form (Section 80 l(a)(ii))	(i) copy submitted for the purposes of international search und	ler
(i) sequence listing	Section 802(b-quater) only (and not as part of the international application)	o nal :
(ii) tables related thereto	(iii) [7] (anhambara check-box (b)(ii) or (c)(ii) is marked in left column	7)
Type and number of carriers (diskette. CD-ROM. CD-R or other) on which are contained the	additional copies including, where applicable, the copy for	er) :
sequence listing:	CODIES WITH the motes mendence in text to the	py or :
tables related thereto:	11. other (specify): ADS, Ret. Rec. Postcard, Exp. Mail.Cert.	. :
items 9(ii) and/or 10(ii), in right column)		
Figure of the drawings which should accompany the abstract:	Language of filing of the ENGLISH international application:	
Next to each signature, indicate the name of the person	INT, AGENT OR COMMON REPRESENTATIVE signing and the capacity in which the person signs (if such capacity is not obvious from received to 2004)	ading the reques
	For receiving Office use only	Drawings:
Date of actual receipt of the purported international application:		
Corrected date of actual receipt due to la timely received papers or drawings com the purported international application:	ter but oleting	·
Date of timely receipt of the required corrections under PCT Article 11(2):		not received
5. International Searching Authority (if two or more are competent): ISA		~
	For International Bureau use only	

Date of receipt of the record copy

This sheet is not part of and does not count as a sheet of the international application.

PCT		For receiving Office u	se only
FEE CALCULATION SHE	FT		
Annex to the Request	E X	International Application No.	
Amiez to the reduction			
Applicant's or agent's file reference MSH-26	8PCT	Date stamp of the receiving Office	
Applicant Dendritic Nanotechnologies, Inc.			
CALCULATION OF PRESCRIBED FEES			
1. TRANSMITTAL FEE		300.00 T	
2. SEARCH FEE	US	1000.00 S	
International search to be carried out by	US		
(If two or more International Searching Aut international search, indicate the name of the the international search.)	horities are competen he Authority which is c	t to carry out chosen to carry out	
3. INTERNATIONAL FILING FEE			
Where items (b) and/or (c) of Box No. IX ap Where items (b) and (c) of Box No. IX do no	ply, enter Sub-total no ot apply, enter Total no	umber of sheets 3 23	
il first 30 sheets	1.	1134.00 [i]	
number of sheets fe in excess of 30	æ per sheet	i2	
additional component (only if sequence thereto are filed in computer readable or both in that form and on paper. und	torm under secuou o	J1(4)(1).	
400 x	ee per sheet	i3	
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Add amounts entered at i1. i2 and i3 and en			
(Applicants from certain States are entitl international filing fee. Where the applic entitled, the total to be entered at I is 25%	rant is for all abblica	mis are so	
		20.00 P	٦ <u> </u>
4. FEE FOR PRIORITY DOCUMENT (if ap.	plicable) ,		
		2454.00	
5. TOTAL FEES PAYABLE		L box TOTAL	
Add amounts entered at 1. 5.1 and 1. and e			
MODE OF PAYMENT		_	
authorization to charge deposit account (see below)	postal money order	cash coupons	
, man	bank draft	revenue stamps other (s)	pecify):
AUTHORIZATION TO CHARGE (OR CE	REDIT) DEPOSIT AC		JS
(This mode of payment may not be available at	an receiving Offices)	Deposit Account No.:	3-2492
Authorization to charge the total fees ind		Date: September 1	0, 2004
(This check-box may be marked only if the of the receiving Office so permit) Authoriz	conditions for deposit a	ceounts	
of the receiving Office so permit! Authorize	es indicated above.	Name: TODET L. We	40 \N. V.

GENERAL POWER OF ATTORNEY

(PCT Rule 90.5)

The undersigned person:

DENDRITIC NANOTECHNOLOGIES, INC. 2625 Denison Drive, Suite B Mount Pleasant, MI 48858 USA

Hereby appoints the following person as: Agent

Karen L. Kimble Technology Law, PLLC 3595 North Sunset Way Sanford, MI 48657 USA

To represent the undersigned before: All the Competent International Authorities

In connection with any and all international applications filed by the undersigned with the following Offices: **EP**, **IB**, **JP** and **US** as receiving Office and to make or receive payments on behalf of the undersigned. This power of attorney shall remain in effect until revoked in writing by Dendritic Nanotechnologies, Inc.

Signature:

Donald A. Tomalia

President and Chief Technical Officer

Dendritic Nanotechnologies, Inc.

Date: